

WHAT IS CLAIMED:

- 1           1.       A bone implant with surface indicator, said implant comprising:  
2           a top surface and a bottom bone-contacting surface;  
3           at least two fastener holes extending from said top surface to said bottom surface;  
4   and  
5           said top surface having a recessed region that provides a tactile indicator for  
6   identifying the top surface of the implant.
- 1           2.       The implant of claim 1, wherein the top surface recess region is elongate in  
2   shape.
- 1           3.       The implant of claim 2, wherein said implant comprises at least one elongate  
2   plate section.
- 1           4.       The implant of claim 3, wherein said implant has a form selected from the  
2   group consisting of an L-shape, a Y-shape, a double Y-shape and an X-shape.
- 1           5.       The implant of claim 3, wherein said implant is arcuately curved in shape.
- 1           6.       The implant of claim 2, further comprising at least two top surface recess  
2   regions.
- 1           7.       The implant of claim 6, wherein said implant is in the form of a substantially  
2   square mesh plate comprising four sides and at least two rows of at least two fastener holes  
3   in each of said rows, said at least two top surface recesses disposed substantially  
4   perpendicular to each other.
- 1           8.       The implant of claim 7, wherein said at least two top surface recesses are  
2   disposed diagonally to said sides of said implant.
- 1           9.       The implant of claim 1, wherein said top surface recess is substantially  
2   circular in shape.
- 1           10.      The implant of claim 9, further comprising:  
2           said implant having central body portion; and

3 a plurality of arms extending radially and angularly outward from said central body  
4 portion, said at least two fastener holes each being disposed in two different one of said  
5 arms,  
6 whereby said implant is capable of being used as a burr hole cover.

1 11. The implant of claim 1, wherein said at least two fastener holes are  
2 countersunk.

1 12. The implant of claim 11, further comprising said countersunk holes having a  
2 first inclined wall with a first angle and an adjacent second inclined wall with a second  
3 angle, said second angle being larger than said first angle.

1 13. The implant of claim 12, wherein said first angle is about 20 degrees and said  
2 second angle is about 140 degrees.

1 14. The implant of claim 3, further comprising said implant having a length and  
2 a width, and at least one transverse slot located between said at least two fastener holes and  
3 extending across at least part of said width of said implant.

1 15. The implant of claim 14, wherein said transverse slot extends from said top  
2 surface to said bottom surface of said implant.

1 16. The implant of claim 2, wherein said recessed portion is U-shaped.

1 17. The implant of claim 1, further comprising at least a portion of the implant  
2 having a side edge chamfer.

1 18. The implant of claim 1, wherein said implant is made from a resorbable  
2 material.

1 19. The implant of claim 18, wherein said resorbable material is a copolymer  
2 selected from the group consisting of 70/30 poly (L, D/L-lactide) and 85/15 poly (L-lactide-  
3 co-glycolide).

1 20. A bone implant with surface indicator, said implant comprising:

2 at least one generally elongate section having longitudinal axis, a top surface, and a  
3 bottom bone-contacting surface;  
4 at least two fastener holes in said at least one elongate section and extending from  
5 said top surface to said bottom surface; and  
6 at least one elongate groove recessed in said top surface of said implant and  
7 extending partially between said top and bottom surfaces, said elongate groove extending at  
8 least partially between said at least two fastener holes  
9 whereby said elongate groove provides a tactile indicator for identifying said top  
10 surface of said implant.

1 21. The implant of claim 20, wherein said elongate groove intersects said at least  
2 two fastener holes.

1 22. The implant of claim 20, wherein said elongate groove is in the form of  
2 channel.

1 23. The implant of claim 20, further comprising at least one elongate slot  
2 disposed in said at least one elongate section, said elongate slot disposed between said at  
3 least two fastener holes and extending transverse to the longitudinal axis of said at least one  
4 elongate section, said elongate slot further extending from said top surface to said bottom  
5 surface.

1 24. The implant of claim 20, wherein said implant is a substantially straight  
2 plate.

1 25. The implant of claim 20, wherein said implant has an arcuately curved shape.

1 26. The implant of claim 20, wherein said implant is made from a resorbable  
2 material.

1 27. A bone plate with surface indicator, said plate comprising:  
2 a top surface and a bottom bone-contacting surface;  
3 at least two fastener holes disposed in said plate and extending from said top surface  
4 to said bottom surface;

5 at least one elongate groove recessed in said top surface of said plate and extending  
6 partially between said top and bottom surfaces, said elongate groove extending at least  
7 partially between said at least two fastener holes; and  
8 at least one elongate slot disposed in said plate and extending from said top surface  
9 to said bottom surface, said elongate slot disposed between said at least two fastener holes  
10 and extending across the plate transverse to the elongate groove, said elongate transverse  
11 slot intersecting said elongate groove;  
12 whereby said elongate groove provides a tactile indicator for identifying said top  
13 surface of said plate; and  
14 whereby said elongate transverse slot induces said plate to bend between the fastener  
15 holes.

1 28. The bone plate of claim 27, wherein said plate is made from a resorbable  
2 material.

1 29. The bone plate of claim 27, further comprising said plate having an elongate  
2 body portion and at least one adjacent elongate first head portion, said first head portion  
3 disposed at an angle to said body portion.

1 30. The implant of claim 29, further comprising said plate having a second  
2 elongate head portion disposed at an angle to said first head portion.

1 31. The implant of claim 27, wherein said plate has an arcuately curved shape.

1 32. A bone plate with bending control, said implanting comprising:  
2 a top surface and a bottom bone-contacting surface;  
3 at least two fastener holes disposed in said plate and extending from said top surface  
4 to said bottom surface, said two fastener holes defining a longitudinal axis therebetween;  
5 and  
6 at least one elongate slot disposed in said plate and extending from said top surface  
7 to said bottom surface, said elongate slot disposed between said at least two fastener holes  
8 and extending transverse to said longitudinal axis;  
9 whereby said elongate transverse slot induces said plate to bend between the fastener  
10 holes.

1           33.     The bone plate of claim 32, wherein said plate is made from a resorbable  
2 material.

1           34.     A method of contouring and attaching a resorbable implant with surface  
2 indicator to a bone comprising the steps of:  
3           providing a resorbable implant having a glass transition temperature ( $T_g$ ) that is  
4 higher than average human body temperature, said implant comprising:  
5                 a)     a top surface and a bottom bone-contacting surface;  
6                 b)     at least two fastener holes extending from said top surface to said  
7 bottom surface;  
8                 c)     a portion of said top surface being recessed and extending partially  
9 between said top and bottom surfaces, whereby said top surface recess  
10 provides a tactile indicator for identifying said top surface of said implant;  
11 raising the temperature of said implant to above the glass transition temperature  
12 ( $T_g$ );  
13 touching said surfaces of said plate to find said top surface recess thereby identifying  
14 said top surface;  
15 deforming said plate to substantially conform to the anatomical shape of the bone  
16 with said top surface facing away from the bone;  
17 applying said plate to the bone; and  
18 attaching said plate to the bone.

1           35.     The method of claim 34, further comprising the steps of:  
2 providing fasteners;  
3 inserting said fasteners through at least some of said fastener holes,  
4 wherein said fasteners are used for attaching said plate to the bone.

1           36.     The method of claim 35, wherein said fasteners are screws or tacks.

1           37.     A bone fixation kit comprising:  
2 at least a first bone implant comprising:  
3                 a)     a top surface and a bottom bone-contacting surface;  
4                 b)     at least two fastener holes extending from said top surface to said  
5 bottom surface; and

6                   c)       said top surface having a recessed region that provides a tactile  
7                   indicator for identifying the top surface of the implant; and  
8                   a plurality of fasteners for attaching said implant to bone.

1           38.     The kit of claim 37, wherein the top surface recess region is elongate in  
2     shape.

1           39.     The kit of claim 38, wherein the implant comprises at least one elongate  
2     plate section.

1           40.     The kit of claim 39, wherein said implant has a form selected from the group  
2     consisting of an L-shape, a Y-shape, a double Y-shape and an X-shape.

1           41.     The kit of claim 37, further comprising said implant having a length and a  
2     width, and at least one transverse slot located between said at least two fastener holes and  
3     extending across at least part of said width of said implant.

1           42.     The kit of claim 37, wherein said implant is made from a resorbable material.

1           43.     The kit of claim 37, wherein said fasteners include screws or tacks.

1           44.     The kit of claim 37, further comprising at least a second bone implant.

1           45.     The kit of claim 44, wherein said second bone implant has a different overall  
2     size than said at least first bone implant.

1           46.     The kit of claim 44, wherein said second bone implant has a different shape  
2     than said at least first bone implant.

1           47.     The kit of claim 44, further comprising at least a third bone implant.

1           48.     The kit of claim 47, wherein said third fixation device has a different shape  
2     than said at least first and second bone implants.

1           49.     The kit of claim 47, wherein said third fixation device has a different overall  
2     size than said at least first and second bone implants.